

DMS Series



Commercial Version MIL-C-5015 compatible



SUMMARY

DMS series connectors are intermateable and intermountable with MIL-C-5015 connectors.

The DMS series offers:

- Hard dielectric interial (diallyl phthalate)
- Zinc plated die cast aluminum shells with olive drab chromate finish (no cadmium is used)
- A selection of over 73 insert arrangements spanning 12 shell sizes and 5 contact sizes
- Pre-tinned solder cup terminations
- A choice of class A (one-piece) and class B (two-piece) back-shell configuration

DMS series connector are designed for use in a wide range of general industrial applications.

FEATURES

● Improved Dielectric Withstanding Voltage (DWV):

An insulation barrier ridge between each contact position effectively increases the creepage distance across the surfaces of the insert, thus increasing DWV.

● Stable Insert Dielectric Material:

Molded Diallyl Phthalate inserts maintain their dielectric, mechanical, and dimensional properties over a wide a range of temperature, humidity, and aging conditions.



DMS Series



- **Wide Range Configurations:**

A choice of over 73 insert arrangements, plus a variety of shell styles and hardware, results in a range of configurations to meet most application needs.

- **Shells Keyed to Prevent Mis-Mating:**

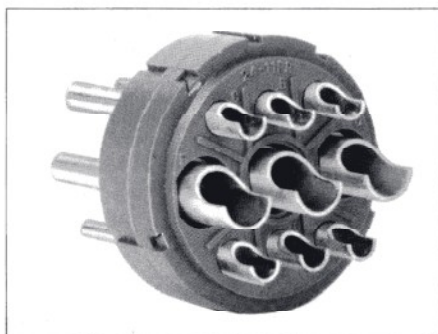
Receptacle key and plug keyway mate before contacts engage to ensure proper contact mating. Alternate rotated insert positions further ensure against erroneous mating of similar connectors.

- **Superior Strength of Coupling Ring:**

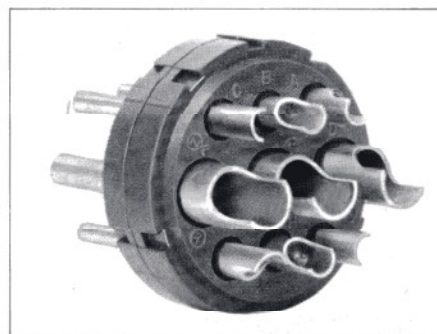
Coupling rings are machined from bar stock to provide superior coupling thread strength as compared to die cast products.

- **Quick and Easy Termination:**

Contacts are pre-loaded in the connector. Pre-Tinned solder cups are permanently oriented in one direction to simplify termination.



DDK



OTHER

APPLICATIONS

The DMS series is designed and manufactured for reliable performance in a broad range of electric/electronic equipment applications. These include machine tools, communications, instrumentation and high current systems.

MATERIAL / FINISH

Contact	Copper alloy/Silver or optional Gold plating
Insulator	Diallyl phthalate resin/Blue
Shell	Aluminum alloy/Zinc plating, Olive drab chromate finish
Coupling Ring	Aluminum alloy/Zinc plating, Olive drab chromate finish
Retaining Ring	Phosphor bronze/Zinc plating, Olive drab chromate finish
Cap	Aluminum alloy/Zinc plating, Olive drab chromate finish
Chain	Stainless steel

DMS Series



Wire Size

Contact Size	Wire Size
#16	AWG#16—#22
#12	AWG#12—#14
#8	AWG#8—#10
#4	AWG#4—#6
#0	AWG#0—#2

Service Rating

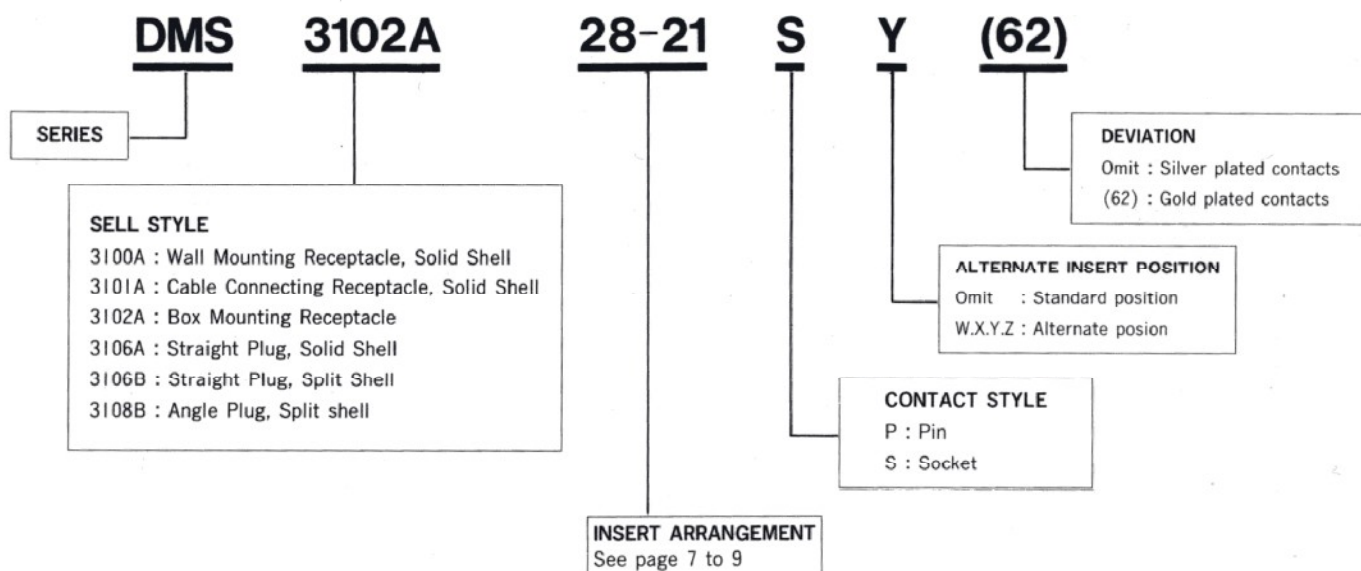
Service Rating	Operating Voltage (V)	
	DC	AC(rms)
INST	250	200
A	700	500
D	1250	900
E	1750	1250
B	2450	1750
C	4200	3000

Contact Current Rating

Contact Size	Test Current (Amperes)
#16	13
#12	23
#8	46
#4	80
#0	150

Maximum total current connector is the same as the allowable current for wire bundles as specified in MIL-W-5088.

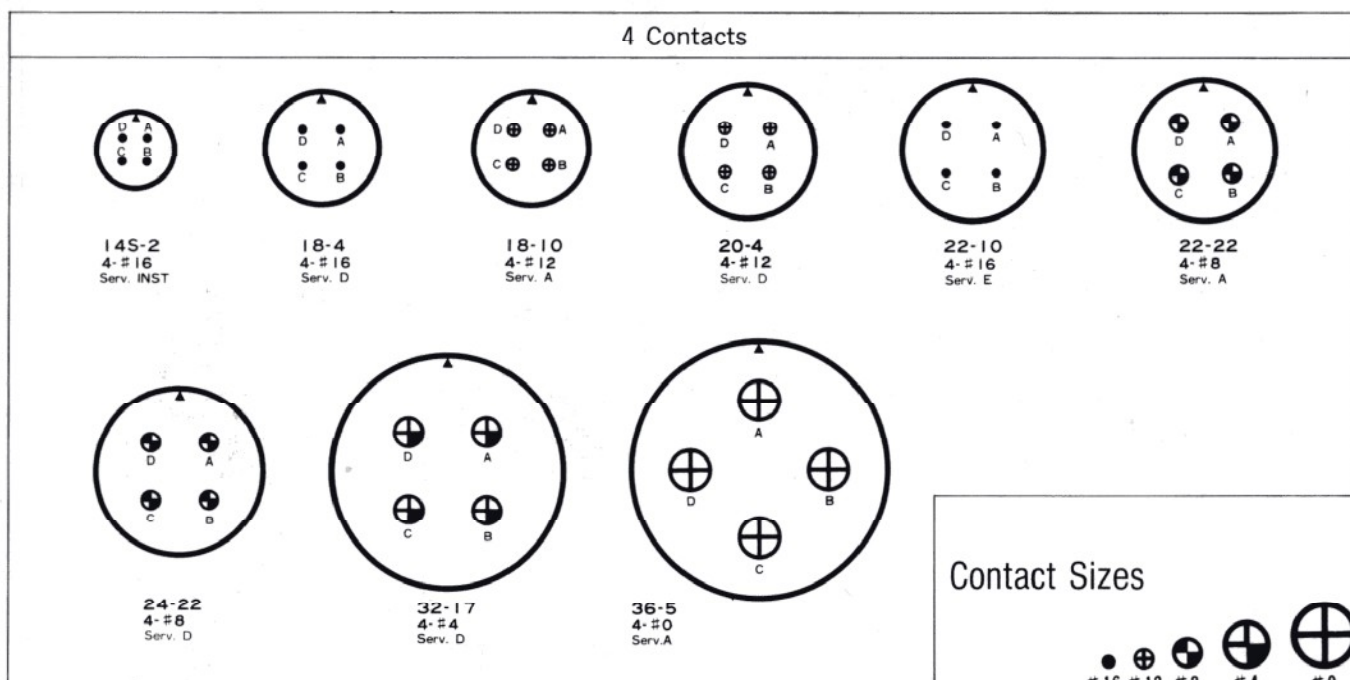
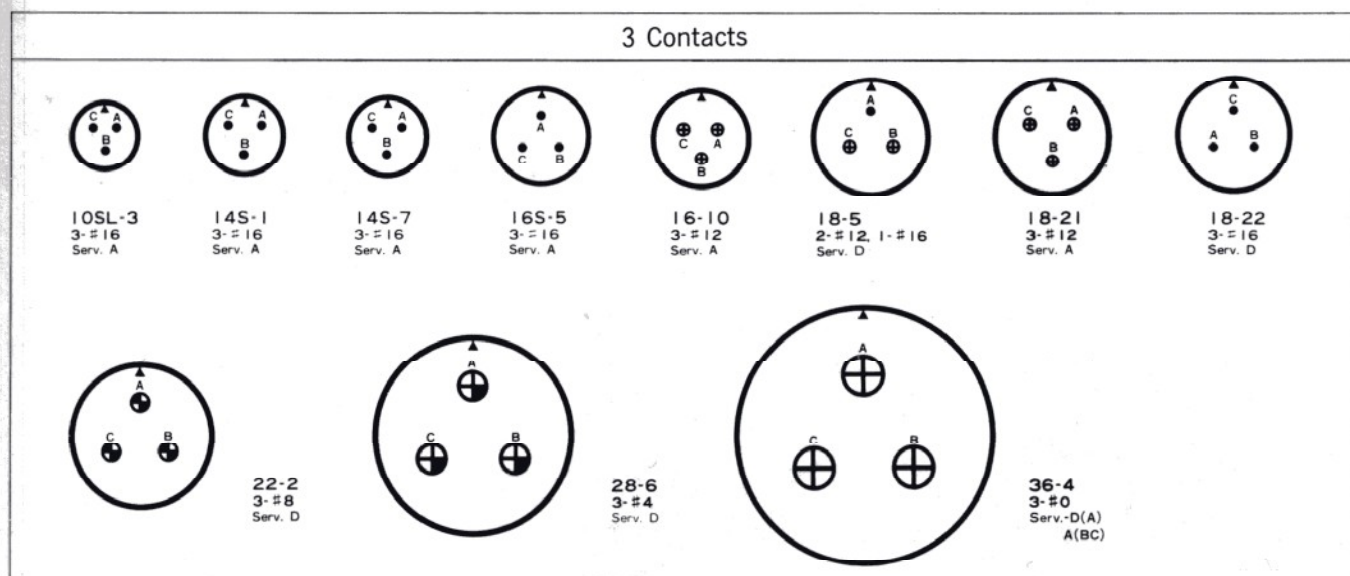
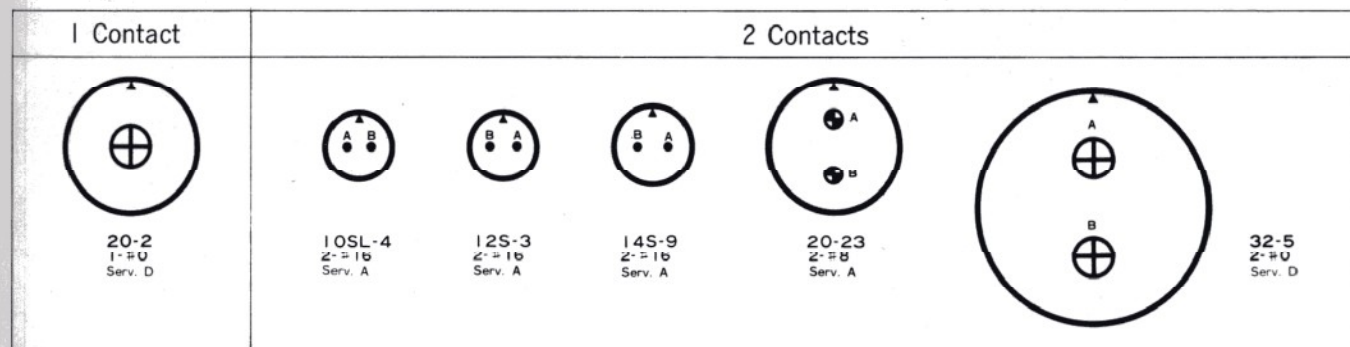
Ordering Information



DMS Series



Insert Arrangements (Front view of Pin Insert)

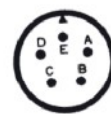
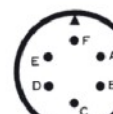
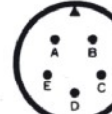
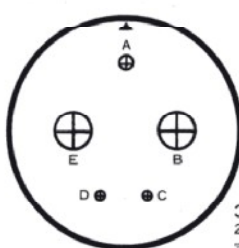
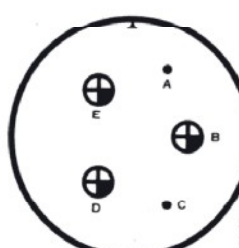
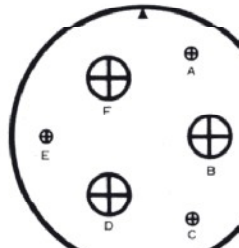
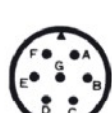
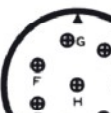
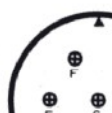
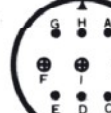
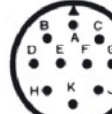
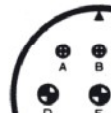


Contact Sizes



DMS Series



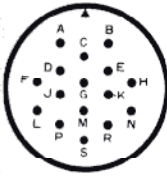
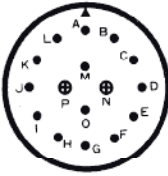
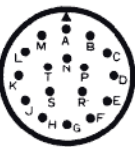
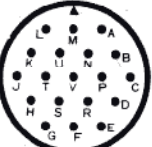
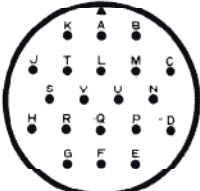
5 Contacts		6 Contacts	
 14S-5 5-#16 Serv. INST		 14S-6 6-#16 Serv. INST	
 16S-8 5-#16 Serv. A		 18-12 6-#16 Serv. A	
 18-11 5-#12 Serv. A		 20-17 5-#12, 1-#16 Serv. A	
 18-20 5-#16 Serv. A		 20-22 3-#8, 3-#16 Serv. A	
 32-1 2-#0, 3-#12 定格-E(A) D(その他)		 32-2 3-#4, 2-#16 Serv. E	
 36-3 3-#0, 3-#12 Serv. D			
7 Contacts			8 Contacts
 16S-1 7-#16 Serv. A			 18-8 1-#12, 7-#16 Serv. A
 20-15 7-#12 Serv. A			 20-7 8-#16 Serv. D(ABHG) A(CDEF)
 22-28 7-#12 Serv. A			 22-23 8-#12 Serv. D(H) A(Others)
 24-2 7-#12 Serv. D			
 24-10 7-#8 Serv. A			
 28-10 2-#4, 2-#0, 3-#12 Serv. D(G) A(Others)			
9 Contacts		10 Contacts	
 20-16 2-#12, 7-#16 Serv. A		 18-1 10-#16 Serv. A(BCFG) INST(Others)	
 20-18 3-#12, 6-#16 Serv. A		 18-19 10-#16 Serv. A	
 24-11 3-#8, 6-#12 Serv. A		 24-20 2-#12, 9-#16 Serv. D	
11 Contacts		14 Contacts	
 20-27 14-#16 Serv. A		 22-19 14-#16 Serv. A	
 28-20 10-#12, 4-#16 Serv. A		 32-9 2-#4, 12-#16 定格-D	

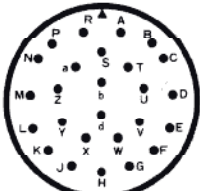
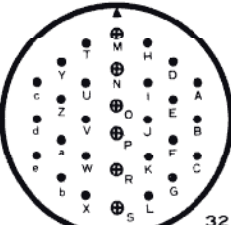
Contact Sizes

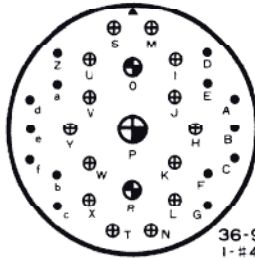
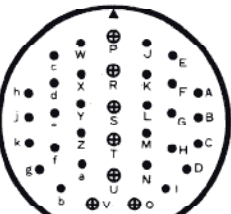
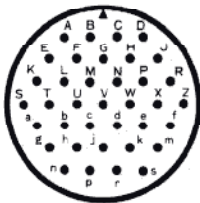


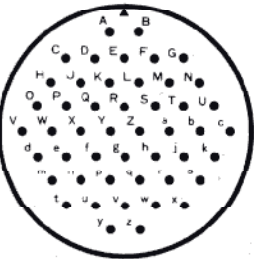
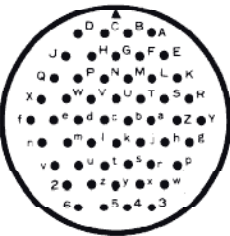
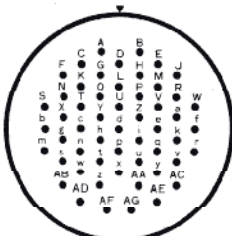
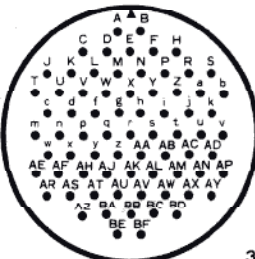
DMS Series



16 Contacts	17 Contacts	19 Contacts	20 Contacts
 24-5 16-#16 Serv. A  24-7 2-#12, 14-#16 Serv. A	 20-29 17-#16 Serv. A	 22-14 19-#16 Serv. A	 28-16 20-#16 Serv. A

22 Contacts	24 Contacts	26 Contacts	30 Contacts
 28-11 4-#12, 10-#16 Serv. A	 24-28 24-#16 Serv. A	 28-12 26-#16 Serv. A	 32-8 0-#12, 24-#16 Serv. A

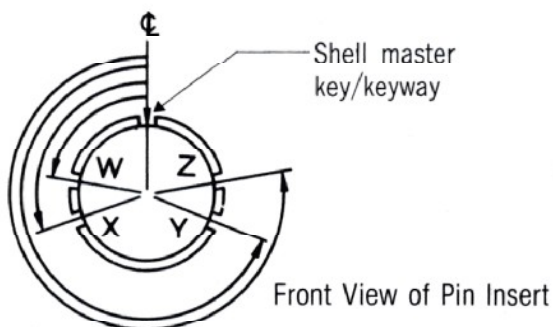
31 Contacts	35 Contacts	37 Contacts
 36-9 1-#4, 2-#8 14-#12, 14-#16 Serv. A	 28-15 35-#16 Serv. A  32-7 7-#12, 28-#16 Serv. INST(ABhj) A(others)	 28-21 37-#12 Serv. A

48 Contacts	52 Contacts	54 Contacts	73 Contacts
 36-10 48-#16 Serv. A	 32-414 52-#16 Serv. A	 32A-10 54-#16 Serv. A	 36-73 73-#16 Serv. A

Contact Sizes



Alternate Insert Positions



No. of. Contacts	Insert No.	W	X	Y	Z
1	20-2	—	—	—	—
2	10SL-4	—	—	—	—
	12S-3	70°	145°	215°	290°
	14S-9	70	145	215	290
	20-23	35	110	250	325
	32-5	35	110	250	325
3	10SL-3	—	—	—	—
	14S-1	—	—	—	—
	14S-7	90	180	270	—
	16S-5	70	145	215	290
	16-10	90	180	270	—
	18-5	80	110	250	280
	18-21	—	—	—	—
	18-22	70	145	215	290
	22-2	70	145	215	290
	28-6	70	145	215	290
	36-4	70	145	215	290
	36-5	—	—	—	—
4	14S-2	—	120	240	—
	18-4	35	110	250	325
	18-10	—	120	240	—
	20-4	45	110	250	—
	22-10	35	110	250	325
	22-22	—	110	250	—
	24-22	45	110	250	—
	32-17	45	110	250	—
	36-5	—	120	240	—
	36-5	—	120	240	—
5	14S-5	—	110	—	—
	16S-8	—	170	265	—
	18-11	—	170	265	—
	18-20	90	180	270	—
	32-1	80	110	250	280
	32-2	70	145	215	290
6	14S-6	—	—	—	—
	18-12	80	—	—	280
	20-17	90	180	270	—
	20-22	80	110	250	280
	36-3	70	145	215	290

No. of. Contacts	Insert No.	W	X	Y	Z
7	16S-1	80	—	—	280
	20-15	80	—	—	280
	22-28	80	—	—	280
	24-2	80	—	—	280
	24-10	80	—	—	280
	28-10	80	110	250	280
	28-10	80	110	250	280
8	18-8	70	—	—	290
	20-7	80	110	250	280
	22-23	35	—	250	—
9	20-16	80	110	250	280
	20-18	35	110	250	325
	24-11	35	110	250	325
10	18-1	70	145	215	290
	18-19	—	120	240	—
11	24-20	80	110	250	280
14	20-27	35	110	250	325
	22-19	80	110	250	280
	28-20	80	110	250	280
	32-9	80	110	250	280
16	24-5	80	110	250	280
	24-7	80	110	250	280
17	20-29	80	—	—	280
19	22-14	80	110	250	280
20	28-16	80	110	250	280
22	28-11	80	110	250	280
24	24-28	80	110	250	280
26	28-12	90	180	270	—
30	32-8	80	125	235	280
31	36-9	80	125	235	280
35	28-15	80	110	250	280
	32-7	80	125	235	280
37	28-21	80	110	250	280
48	36-10	80	125	235	280
52	32-414	80	110	250	280
54	32A-10	—	—	—	—
73	36-73	80	110	250	280

DMS Series



Insert Specifications

Insert Number	No. of Contacts	Service Rating	Contact Size				
			#0	#4	#8	#12	#16
10SL-3	3	A					3
10SL-4	2	A					2
12S-3	2	A					2
14S-1	3	A					3
14S-2	4	INST					4
14S-5	5	INST					5
14S-6	6	INST					6
14S-7	3	A					3
14S-9	2	A					2
16S-1	7	A					7
16S-5	3	A					3
16S-8	5	A					5
16-10	3	A				3	
18-1	10	A					4
		INST					6
18-4	4	D					4
18-5	3	D				2	1
18-8	8	A				1	7
18-10	4	A				4	
18-11	5	A				5	
18-12	6	A					6
18-19	10	A					10
18-20	5	A					5
18-21	3	A				3	
18-22	3	D					3
20-2	1	D	1				
20-4	4	D				4	
20-7	8	D					4
		A					4
20-15	7	A				7	
20-16	9	A				2	7
20-17	6	A				5	1
20-18	9	A				3	6
20-22	6	A			3		3
20-23	2	A			2		
20-27	14	A					14
20-29	17	A					17
22-2	3	D			3		
22-10	4	F					4
22-14	19	A					19

Insert Number	No. of Contacts	Service Rating	Contact Size				
			#0	#4	#8	#12	#16
22-19	14	A					14
22-22	4	A			4		
22-23	8	D				1	
		A				7	
22-28	7	A				7	
24-2	7	D				7	
24-5	16	A					16
24-7	16	A				2	14
24-10	7	A			7		
24-11	9	A			3	6	
24-20	11	D				2	9
24-22	4	D			4		
24-28	24	INST					24
28-6	3	D		3			
28-10	7	D				1	
		A		2	2	2	
28-11	22	A				4	18
28-12	26	A					26
28-15	35	A					35
28-16	20	A					20
28-20	14	A				10	4
28-21	37	A					37
32-1	5	E				1	
		D	2			2	
32-2	5	E		3			2
32-5	2	D	2				
32-7	35	A				7	24
		INST					4
32-8	30	A				6	24
32-9	14	D		2			12
32A-10	54	A					54
32-17	4	D		4			
32-414	52	A					52
36-3	6	D	3			3	
36-4	3	D	1				
		A	2				
36-5	4	A	4				
36-9	31	A		1	2	14	14
36-10	48	A					48
36-73	73	A					73

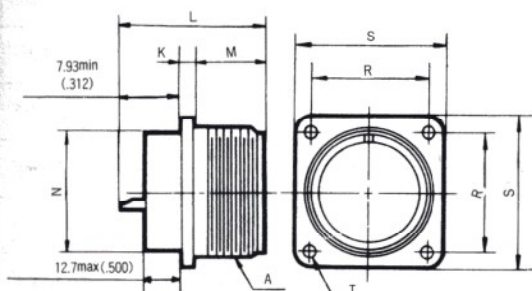
Note: Insert number 10SL-3 and 10SL-4 are available the following part numbers only:
DMS3102A10SL-3P, DMS3102A10SL-4P
DMS3106A10SL-3S, DMS3106A10SL-4S

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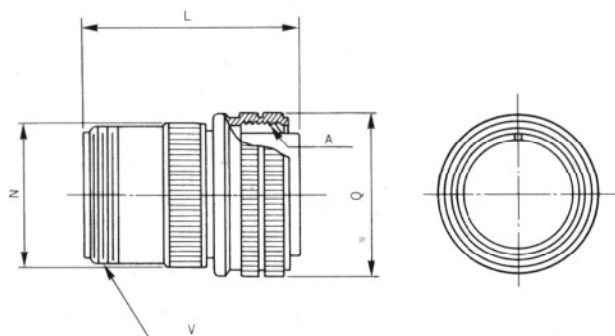
DMS3102A (Box Mounting Receptacle)

Unit : mm (inch)



Shell Size	Coupling Threads A	K	L	M	N	R	S	T
10SL	$\frac{5}{8}$ -24UNEF	2.1 (.083)	30.25 (1.191)	14.28 (.562)	15.9 (.626)	18.26 (.719)	25.4 (1.000)	3.05 (.120)
12S	$\frac{3}{4}$ -20UNEF	2.1 (.083)	30.25 (1.191)	14.28 (.562)	17.5 (.689)	20.62 (.812)	27.8 (1.094)	3.05 (.120)
14S	$\frac{7}{8}$ -20UNEF	2.1 (.083)	30.25 (1.191)	14.28 (.562)	19.1 (.752)	23.01 (.906)	30.2 (1.189)	3.05 (.120)
16S	1-20UNEF	2.1 (.083)	30.25 (1.191)	14.28 (.562)	22.2 (.872)	24.61 (.969)	32.5 (1.280)	3.05 (.120)
16	1-20UNEF	3.2 (.126)	44.45 (1.750)	19.05 (.750)	22.4 (.874)	24.61 (.969)	32.5 (1.280)	3.05 (.120)
18	$1\frac{1}{8}$ -18UNEF	3.2 (.126)	49.22 (1.938)	19.05 (.750)	25.4 (1.000)	26.97 (1.062)	34.9 (1.374)	3.05 (.120)
20	$1\frac{1}{4}$ -18UNEF	3.2 (.126)	49.22 (1.938)	19.05 (.750)	28.6 (1.126)	29.36 (1.156)	38.1 (1.500)	3.05 (.120)
22	$1\frac{3}{8}$ -18UNEF	3.2 (.126)	49.22 (1.938)	19.05 (.750)	31.8 (1.252)	31.75 (1.250)	41.3 (1.626)	3.05 (.120)
24	$1\frac{1}{2}$ -18UNEF	3.2 (.126)	49.22 (1.938)	20.63 (.812)	34.9 (1.374)	34.92 (1.375)	44.4 (1.748)	3.74 (.147)
28	$1\frac{3}{4}$ -18UNS	3.2 (.126)	49.22 (1.938)	20.63 (.812)	41.3 (1.626)	39.67 (1.562)	50.8 (2.000)	3.74 (.147)
32	2-18UNS	3.7 (.146)	49.22 (1.938)	22.23 (.875)	48.4 (1.906)	44.45 (1.750)	57.2 (2.252)	4.4 (.173)
36	$2\frac{1}{4}$ -16UN	3.7 (.146)	49.22 (1.938)	22.23 (.875)	54.0 (2.126)	49.23 (1.938)	63.5 (2.500)	4.4 (.173)

DMS3106A (Straight Plug, Solid Shell)



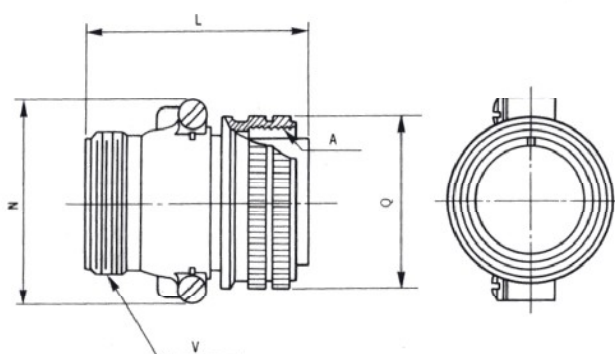
Shell Size	Coupling Threads A	L	Q	N	Rear Threads V
10SL	$\frac{5}{8}$ -24UNEF	34.9 (1.374)	22.22 (.875)	19.12 (.753)	$\frac{5}{8}$ -24UNEF
12S	$\frac{3}{4}$ -20UNEF	36.5 (1.437)	25.4 (1.000)	19.89 (.783)	$\frac{5}{8}$ -24UNEF
14S	$\frac{7}{8}$ -20UNEF	36.5 (1.437)	28.57 (1.125)	22.29 (.878)	$\frac{3}{4}$ -20UNEF
16S	1-20UNEF	36.9 (1.453)	31.75 (1.250)	25.45 (1.002)	$\frac{7}{8}$ -20UNEF
16	1-20UNEF	48.0 (1.890)	31.75 (1.250)	25.45 (1.002)	$\frac{7}{8}$ -20UNEF
18	$1\frac{1}{8}$ -18UNEF	50.8 (2.000)	34.13 (1.344)	28.64 (1.128)	1-20UNEF
20	$1\frac{1}{4}$ -18UNEF	54.0 (2.126)	37.28 (1.468)	31.81 (1.252)	$1\frac{3}{8}$ -18UNEF
22	$1\frac{3}{8}$ -18UNEF	54.0 (2.126)	40.48 (1.594)	34.99 (1.378)	$1\frac{3}{8}$ -18UNEF
24	$1\frac{1}{2}$ -18UNEF	57.2 (2.252)	43.63 (1.718)	38.15 (1.502)	$1\frac{7}{8}$ -18UNEF
28	$1\frac{3}{4}$ -18UNS	57.2 (2.252)	50.0 (1.969)	44.51 (1.752)	$1\frac{7}{8}$ -18UNEF
32	2-18UNS	60.3 (2.374)	56.33 (2.218)	51.24 (2.017)	$1\frac{3}{4}$ -18UNS
36	$2\frac{1}{4}$ -16UN	60.3 (2.374)	62.68 (2.468)	57.21 (2.252)	2-18UNS

DMS Series



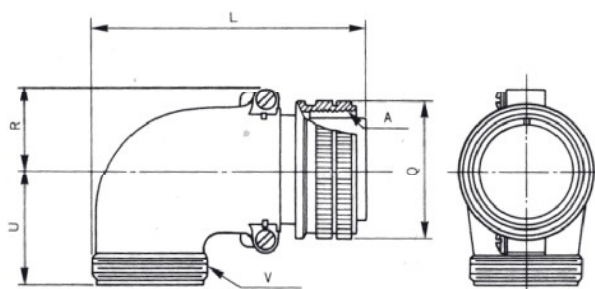
DMS3106B (Straight Plug, Split Shell)

Unit : mm (inch)



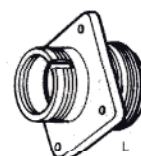
Shell Size	Coupling Threads A	L	Q	N	Rear Threads V
12S	$\frac{3}{4}$ -20UNEF	42.88 (1.688)	25.4 (1.000)	26.97 (1.062)	$\frac{5}{8}$ -24UNEF
14S	$\frac{7}{8}$ -20UNEF	42.88 (1.688)	28.57 (1.125)	30.0 (1.181)	$\frac{3}{4}$ -20UNEF
16S	1-20UNEF	42.88 (1.688)	31.75 (1.250)	32.0 (1.260)	$\frac{7}{8}$ -20UNEF
16	1-20UNEF	52.37 (2.062)	31.75 (1.250)	32.0 (1.260)	$\frac{7}{8}$ -20UNEF
18	$1\frac{1}{8}$ -18UNEF	52.37 (2.062)	34.13 (1.344)	41.68 (1.641)	1-20UNEF
20	$1\frac{1}{4}$ -18UNEF	55.57 (2.188)	37.28 (1.468)	46.02 (1.812)	$1\frac{3}{16}$ -18UNEF
22	$1\frac{3}{8}$ -18UNEF	55.57 (2.188)	40.48 (1.594)	49.22 (1.938)	$1\frac{3}{16}$ -18UNEF
24	$1\frac{1}{2}$ -18UNEF	58.72 (2.312)	43.63 (1.718)	52.37 (2.062)	$1\frac{7}{16}$ -18UNEF
28	$1\frac{3}{4}$ -18UNS	58.72 (2.312)	50.0 (1.969)	58.72 (2.312)	$1\frac{7}{16}$ -18UNEF
32	2-18UNS	61.92 (2.438)	56.33 (2.218)	65.88 (2.594)	$1\frac{3}{4}$ -18UNS
36	$2\frac{1}{4}$ -16UN	61.92 (2.438)	62.68 (2.468)	72.23 (2.844)	2-18UNS

DMS3108B (Angle Plug, Split Shell)



Shell Size	Coupling Threads A	L	Q	R	U	Rear Threads V
12S	$\frac{3}{4}$ -20UNEF	50.8 (2.000)	25.4 (1.000)	10.5 (.413)	25.4 (1.000)	$\frac{5}{8}$ -24UNEF
14S	$\frac{7}{8}$ -20UNEF	53.97 (2.125)	28.57 (1.125)	14.9 (.587)	27.0 (1.063)	$\frac{3}{4}$ -20UNEF
16S	1-20UNEF	60.32 (2.375)	31.75 (1.250)	18.5 (.728)	28.6 (1.126)	$\frac{7}{8}$ -20UNEF
16	1-20UNEF	65.07 (2.562)	31.75 (1.250)	18.5 (.728)	28.6 (1.126)	$\frac{7}{8}$ -20UNEF
18	$1\frac{1}{8}$ -18UNEF	68.27 (2.688)	34.13 (1.344)	20.5 (.807)	30.2 (1.189)	1-20UNEF
20	$1\frac{1}{4}$ -18UNEF	76.98 (3.031)	37.28 (1.468)	22.5 (.886)	33.3 (1.311)	$1\frac{3}{16}$ -18UNEF
22	$1\frac{3}{8}$ -18UNEF	76.98 (3.031)	40.48 (1.594)	24.1 (.949)	33.3 (1.311)	$1\frac{3}{16}$ -18UNEF
24	$1\frac{1}{2}$ -18UNEF	86.51 (3.406)	43.63 (1.718)	25.6 (1.008)	36.5 (1.437)	$1\frac{7}{16}$ -18UNEF
28	$1\frac{3}{4}$ -18UNS	86.51 (3.406)	50.0 (1.969)	28.8 (1.134)	36.5 (1.437)	$1\frac{7}{16}$ -18UNEF
32	2-18UNS	95.25 (3.750)	56.33 (2.218)	32.8 (1.291)	44.4 (1.748)	$1\frac{3}{4}$ -18UNS
36	$2\frac{1}{4}$ -16UN	100.0 (3.937)	62.68 (2.468)	36.0 (1.417)	49.2 (1.937)	2-18UNS

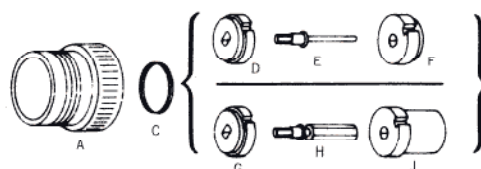
Assembly



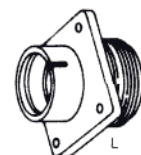
DMS3100A



DMS3101A

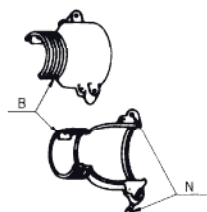


DMS3106A

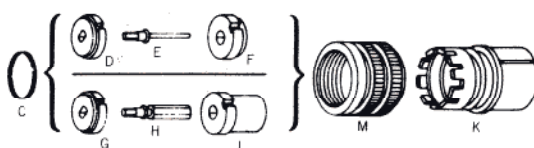
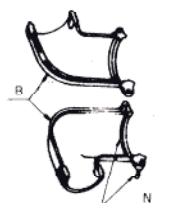


DMS3102A

DMS3106B



DMS3108B



- A : Back Shell
- B : Split Back Shell
- C : Retaining Ring
- D : Pin Rear Insert
- E : Pin Contact
- F : Pin Front Insert
- G : Socket Rear Insert
- H : Socket Contact
- J : Socket Front Insert
- K : Front Shell
- L : Shell
- M : Coupling Ring
- N : Screws

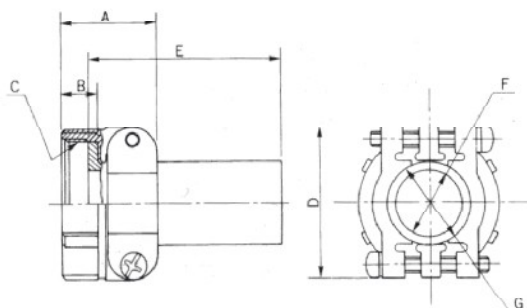
DMS Series



Unit : mm(inch)

DMS3057-XXA

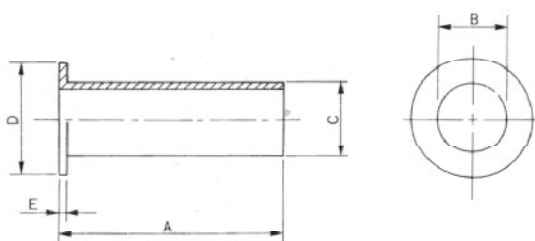
Cable Clamp



Part Number	Shell Size	A	B	Threads C	D	E	F	G	Bushing Part Number
DMS3057-4A	10SL, 12S	20.62 (.812)	10.31 (.406)	$\frac{5}{8}$ -24UNEF	22.23 (.875)	69.8 (2.748)	5.59 (.220)	7.67 (.302)	AN3420-4
DMS3057-6A	14S	22.23 (.875)	10.31 (.406)	$\frac{3}{4}$ -20UNEF	26.97 (1.062)	66.7 (2.626)	7.92 (.312)	10.85 (.427)	AN3420-6
DMS3057-8A	16S, 16	23.83 (.938)	10.31 (.406)	$\frac{7}{8}$ -20UNEF	29.36 (1.156)	63.5 (2.500)	11.10 (.437)	14.02 (.552)	AN3420-8
DMS3057-10A	18	23.83 (.938)	10.31 (.406)	1-20UNEF	31.75 (1.250)	60.3 (2.374)	14.27 (.562)	15.62 (.615)	AN3420-10
DMS3057-12A	20, 22	23.83 (.938)	10.31 (.406)	1 $\frac{1}{8}$ -18UNEF	37.31 (1.469)	57.2 (2.252)	15.88 (.625)	18.80 (.740)	AN3420-12
DMS3057-16A	24, 28	26.19 (1.031)	10.31 (.406)	1 $\frac{3}{8}$ -18UNEF	42.88 (1.688)	54.0 (2.126)	19.05 (.750)	23.55 (.927)	AN3420-16
DMS3057-20A	32	27.79 (1.094)	11.91 (.469)	1 $\frac{3}{4}$ -18UNS	51.59 (2.031)	50.8 (2.000)	23.80 (.937)	31.50 (1.240)	AN3420-20
DM3057-24A	36	29.36 (1.156)	13.49 (.531)	2-18UNS	57.94 (2.281)	47.6 (1.874)	31.75 (1.250)	34.67 (1.365)	AN3420-24

AN3420-XX

Bushing



Part Number	A	B	C	D	E
AN3420-4	69.8 (2.748)	5.59 (.220)	7.67 (.302)	14.5 (.571)	2.3 (.091)
AN3420-6	66.7 (2.626)	7.92 (.312)	10.85 (.427)	17.5 (.689)	2.3 (.091)
AN3420-8	63.5 (2.500)	11.10 (.437)	14.02 (.552)	20.8 (.819)	2.3 (.091)
AN3420-10	60.3 (2.374)	14.27 (.562)	15.62 (.615)	23.7 (.933)	2.3 (.091)
AN3420-12	57.2 (2.252)	15.88 (.625)	18.80 (.740)	28.2 (1.110)	2.3 (.091)
AN3420-16	54.0 (2.126)	19.05 (.750)	23.55 (.927)	35.0 (1.378)	2.9 (.114)
AN3420-20	50.8 (2.000)	23.80 (.937)	31.50 (1.240)	42.8 (1.695)	2.9 (.114)
AN3420-24	47.6 (1.874)	31.75 (1.250)	34.67 (1.365)	48.8 (1.921)	2.9 (.114)